

#16

Sheet 1 of 1

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

FEB 09 1998

(Use several sheets if necessary)

ATTY. DOCKET NO.
2026-4205SERIAL NO.
08/533,895APPLICANT(S)
Topalian, et al.FILING DATE
September 26, 1997GROUP ART UNIT
1817

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AC		WO 88/02372	4-7-88	PCT	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

EXAMINER

A. Capato

DATE CONSIDERED

4/29/98

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

#9

FORM PTO-1449.	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 2026-4205US	SERIAL NO. 08/533,895
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		APPLICANT(S) Topalian, et al.	
		FILING DATE September 26, 1995	GROUP ART UNIT 1817

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M		5	2	6	2	1	7	7	11/16/93	Brown et al.			
N		5	3	4	2	7	7	4	08/31/94	Boon et al.			

FOREIGN PATENT DOCUMENTS

T		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
													YES	NO	
M		9	4	0	5	3	0	4	3/94	PCT					
N		0	6	6	8	3	5	0	08/23/95	EPO					
N		3	3	4	1	3	6	7	05/24/84	GERMANY (DE)					
N		2	1	3	3	5	4	3	08/24/84	GB					
N		9	5	2	2	5	6	1	08/24/95	PCT					
N		9	4	2	3	0	6	7	10/13/94	PCT					
N		9	3	1	4	1	8	9	07/22/93	PCT					
N		9	4	1	4	4	5	9	07/94						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

M		Chicz, R.M., et al., "Specificity And Promiscuity Among Naturally Processed Peptides Bound To HLA-Dr Alleles" <i>J. Exp. Med.</i> , 178, 27-47; (1993)
N		Sette, A. et al., "Capacity Of Intact Proteins To Bind To MHC Class II Molecules" <i>J. Immunol.</i> , 143, 1265-1267; (1989)
N		Brown, J.H., et al. "Three-Dimensional Structure Of The Human Class II Histocompatibility Antigen HLA-DRI" <i>Nature</i> , 364, 33-39 (1993)
N		Kwon, et al., "Isolation And Sequence Of A cDNA Clone For Human Tyrosinase That Maps At The Mouse c-Albino Locus" <i>PNAS</i> , 84:7473-7477, (1987)
N		Shibihara, S. et al., "Molecular Basis For The Heterogeneity Of Human Tyrosinase" <i>J. Exp. Med.</i> , 156:403-414, (1988)
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N		Rammensee, H.G. et al., "MHC Ligands And Peptide Motifs: First Listing" <i>Immunogenetics</i> , 41:178-228 (1995)
N		Kozono, H. et al., "Production Of Soluble MHC II Class II Proteins With Covalently Bound Single Peptides" <i>Nature</i> , 369:151-154 (1994)
N		Sinigaglia, F. et al., "Motifs And Super motifs for MHC Class II Binding Peptides" <i>J. Exp. Med.</i> , 181:449-451 (1995)
N		Kawakami, et al. "Cloning Of The Gene Coding For A Shared Human Melanoma Antigen Recognized By Autologous T-Cells Infiltrating Into Tumor" <i>Proc. Natl Acad. Sci.</i> , 91:3575-3579 (1994)
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<input checked="" type="checkbox"/>		Sidney, J. et al., "DR B1* 0301 Molecules Recognize A Strcuturel Motif Distinct From The One Recognized By Most DR B, Alleles" <i>J. Immunol.</i> , 149, 2634-2640, (1992)		
<input checked="" type="checkbox"/>		Malcherek, G. et al., "Super Motifs Enable Natural Invariant Chain-derived Peptides To Interact With Many Major Histocompatibility Complex-class II Molecules" <i>J. Exp. Med.</i> , 181, 527-536 (1995)		
<input checked="" type="checkbox"/>		Topalian, S., "MHC Class II Restricted Tumor Antigens And The Role Of CD4+ T Cells In Cancer Antigens" <i>Current Opinion in Immunology</i> , 6:741-745, (1994)		
<input checked="" type="checkbox"/>		Topalian, S., et al. (1994) "Melanoma Specific CD4+ T-Lymphocytes Recognize Human Melanoma Antigens Processed And Presented By Epstein Barr Virus Transformed Cells" <i>Int. J. Cancer</i> 58:69-79		
<input checked="" type="checkbox"/>		Nanda, et al., "Induction of Anti Self-Immunity to Bone Cancer" <i>Cell</i> , 82:13-17, (1995)		
<input checked="" type="checkbox"/>		Markus, N. et al., "Analysis of Cytokine Secretion by Melanoma-Specific CD4+ & Lymphocytes" <i>Journal of Interferon and Cytokine Research</i> , 15:739-746, (1995)		
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<input checked="" type="checkbox"/>		Coulie, P.G. et al. (1993) "Genes coding for tumor antigens recognized by human cytolytic T-lymphocytes." <i>J. Immunotherap.</i> ; 14:104-109.		
<input checked="" type="checkbox"/>		Coulie P.G. et al. "A new gene coding for a differentiation antigen recognized by autologous cytolytic T lymphocytes on HLA-A2 melanomas." <i>J. Exp. Med.</i> 1994; 180:35-42.		
<input checked="" type="checkbox"/>		Maresh, C.A. et al.: "Cloning and expression of the gene for the melanoma associated ME20 antigen." <i>DNA and Cell Biology</i> 1994; 13:87-95.		
<input checked="" type="checkbox"/>		Cox, A.L., et al. "Identification of a peptide recognized by five melanoma-specific human cytotoxic T cell lines." <i>Science</i> 1994; 264:716-719.		
<input checked="" type="checkbox"/>		Brichard, V., et al.: "The tyrosinase gene codes for an antigen recognized by autologous cytolytic T lymphocytes on HLA-A2 melanomas". <i>J. Exp. Med.</i> 1993; 178:489-495.		
<input checked="" type="checkbox"/>		Gaugler, B., et al. "Human gene MAGE-3 codes for an antigen recognized on a melanoma by autologous cytolytic T lymphocytes". <i>J. Exp. Med.</i> 1994; 179:921-930.		
<input checked="" type="checkbox"/>		Traversari, C., et al.: "A nonapeptide encoded by human gene MAGE-1 is recognized on HLA-A1 by cytolytic T lymphocytes directed against tumor antigen MZ2-E". <i>J. Exp. Med.</i> 1992; 176:1453-1457.		
<input checked="" type="checkbox"/>		Cellis, E., et al.: "Induction of anti-tumor cytotoxic T lymphocytes in normal humans using primary cultures and synthetic peptides epitopes". <i>Proc. Natl. Acad. Sci. USA</i> 1994; 91:2105-2109.		
<input checked="" type="checkbox"/>		Boon, T.: "Toward a genetic analysis of tumor rejection antigens". <i>Adv. Cancer Res.</i> 1992; 58:177-210.		
<input checked="" type="checkbox"/>		Kawakami, Y., et al.: "T-cell recognition of human melanoma antigens." <i>J. Immunother.</i> 1993; 14:88-93.		
<input checked="" type="checkbox"/>		Bakker, A.B.H., et al.: "Melanocyte lineage-specific antigen gp100 is recognized by melanocyte-derived tumor infiltrating lymphocytes." <i>J. Exp. Med.</i> 1994; 179:1005-1009.		
<input checked="" type="checkbox"/>		Wölfel, T., et al.: "Two tyrosinase nonapeptides recognized on HLA-A2 melanomas by autologous cytolytic T lymphocytes." <i>Eur. J. Immunol.</i> 1994; 24:759-764.		
<input checked="" type="checkbox"/>		Adema, G.J., et al.: "Melanocyte lineage-specific antigens recognized by monoclonal antibodies NK1-beteb, HMB-50, and HMB-45 are encoded by a single cDNA." <i>Am J. Pathol.</i> 1993; 143:1579-1585.		
<input checked="" type="checkbox"/>		Kwon, B.S., et al.: "A melanocyte-specific gene, Pmel 17, maps near the silver coat color locus on mouse chromosome 10 and is in a syntenic region on human chromosome 12." <i>Proc. Natl. Acad. Sci. USA</i> 1991; 88:9228-9232.		

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N		Rosenberg, S.A., et al.: "Use of tumor infiltrating lymphocytes and interleukin-2 in the immunotherapy of patients with metastatic melanoma. Preliminary report." <i>N. Engl. J. Med.</i> 1988; 319:1676-1680.	
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N		Kawakami, Y., et al.: "Identification of a human melanoma antigen recognized by tumor-infiltrating lymphocytes associated with <i>in vivo</i> tumor rejection." <i>Proc. Natl. Acad. Sci. USA</i> 1994; 91:6458-6462.	
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N		Cole, D.J., et al., "Characterization of the Functional Specificity of a Cloned T-Cell Receptor Heterodimer Recognizing the MART-1 Melanoma Antigen" <i>Cancer Res.</i> 55:748-752 Feb. 1995	
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N		Castelli, C., et al., "Mass Spectrometric Identification of a Naturally Processed Melanoma Peptide Recognized by CD8 ⁺ Cytotoxic T Lymphocytes" <i>J. Exp. Med.</i> 181:363-368 1995	
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✓		Topalian, S.L., et al., "Human CD4 ⁺ T Cells Specifically Recognize a Shared Melanoma-Associated Antigen Encoded by the Tyrosinase Gene" <i>PNAS</i> 91:9461-9465, 1994.		
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✓		Slingluff, C.L., Jr., et al., "Recognition of Human Melanoma Cells by HLA-A2.1-Restricted Cytotoxic T Lymphocytes Is Mediated by at Least Six Shared Peptide Epitopes" <i>Journal of Immunology</i> 150:2955-2963 1993		
✓		GENBANK DATABASE ACCESSION NUMBER M77348 - Human PMEL 17 in RNA - November 14, 1991		
✓		GENBANK DATABASE ACCESSION NUMBER U06654 - Human Differentiation Antigen Melan-A Protein in RNA - July 30, 1994		
✓		GENBANK DATABASE ACCESSION NUMBER U06452 - Human Melanoma Antigen Recognized by T-Cells (MART-1) mRNA - June 25, 1994		
✓		GENBANK DATABASE ACCESSION NUMBER S73003 - GP100 Melanocyte Lineage Specific Antigen / PMELL 7 - January 25, 1995		
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✓		Bouchard, Brigitte, et al.: "Induction of pigmentation in mouse fibroblasts by expression of human tyrosinase." <i>J. Exp. Med.</i> 1989; 169:2029-2042.		
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✓		Spritz, Richard A.: "Molecular Genetics of Oculocutaneous Albinism." <i>Seminars in Dermatology</i> 1993; Vol. 12, No.3:167-172		
✓		Robbins, et al. (1994), "Recognition of tyrosinase by tumor-infiltrating lymphocytes from a patient responding to immunotherapy", <i>Cancer Research</i> ; 54:3124-3126		
✓		Robbins, et al (1995), "Cloning of a new gene encoding an antigen recognized by melanoma-specific HLA-A24-restricted tumor-infiltrating lymphocytes" <i>J. IMMUNOL.</i> 1995;154(11), 5944, 50		
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